



July 28, 2017

Tom Moe USS Corporation P.O. Box 417 8771 Park Ridge Dr Mountain Iron, MN 55768

RE: Project: NPDES-TB

Pace Project No.: 1292117

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melisa M Woods

Massir Wirds

melisa.woods@pacelabs.com

(218)742-1042

Project Manager

Enclosures

cc: Bethany Given, USS Corporation

Terri Sabetti, NTS







CERTIFICATIONS

Project: NPDES-TB Pace Project No.: 1292117

Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792

Alaska Certification UST-107 Alaska Certification UST-107

Montana Certificate #CERT0103

Montana Certificate #CER10103
California Certification #2973

California Certification #2973

Alaska Certification #MN01084

Arizona Department of Health Certification #AZ0785

Minnesota Dept of Health Certification #: 027-137-445

North Dakota Certification: # R-203

Wisconsin DNR Certification # : 998027470

WA Department of Ecology Lab ID# C1007

Nevada DNR #MN010842015-1

Oklahoma Department of Environmental Quality

California Certification #2973

Duluth Minnesota Cerification ID's

4730 Oneota St., Duluth, MN 55807

Minnesota Dept of Health Certification #: 027-137-152

Wisconsin DNR Certification #: 999446800

North Dakota Certification #: R-105

(218) 742-1042



SAMPLE SUMMARY

Project: NPDES-TB Pace Project No.: 1292117

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1292117001	SD 001 (Seep 020)	Water	07/19/17 11:00	07/19/17 13:15

(218) 742-1042



SAMPLE ANALYTE COUNT

Project: NPDES-TB Pace Project No.: 1292117

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1292117001	SD 001 (Seep 020)	EPA 1664A TPH (1999)	DES	1	PASI-DUL
		USGS I-3765	CRE	1	PASI-V



ANALYTICAL RESULTS

Project: NPDES-TB Pace Project No.: 1292117

Date: 07/28/2017 07:32 AM

Sample: SD 001 (Seep 020)	Lab ID:	1292117001	Collecte	d: 07/19/17	7 11:00	Received: 07/	/19/17 13:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical	Method: EPA	1664A TPH	(1999)					
Total Petroleum Hydrocarbons	ND	mg/L	2.9	0.99	1		07/26/17 15:25		
USGS I-3765 TSS	Analytical	Method: USG	S I-3765						
Total Suspended Solids	1.6	mg/L	1.0	1.0	1		07/24/17 15:42		



QUALITY CONTROL DATA

EPA 1664A TPH (1999)

1664 SGT-HEM, TPH

Analysis Method:

Analysis Description:

Matrix: Water

Project: NPDES-TB Pace Project No.: 1292117

METHOD BLANK: 478624

Date: 07/28/2017 07:32 AM

QC Batch:

QC Batch Method: EPA 1664A TPH (1999)

Associated Lab Samples: 1292117001

120633

Associated Lab Samples: 1292117001

Blank Reporting Limit Parameter Units Result

MDL Qualifiers Analyzed Total Petroleum Hydrocarbons ND 3.0 1.0 07/26/17 13:14 mg/L

LABORATORY CONTROL SAMPLE:

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 78 Total Petroleum Hydrocarbons mg/L 20 15.6 64-132

MATRIX SPIKE SAMPLE: 478626

1292278001 MS Spike MS % Rec Qualifiers Parameter Units Result Conc. Result % Rec Limits <1.1 64-132 Total Petroleum Hydrocarbons 21.3 17.6 80 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



SAMPLE DUPLICATE: 477770

SAMPLE DUPLICATE: 477771

Total Suspended Solids

Total Suspended Solids

Date: 07/28/2017 07:32 AM

Parameter

Parameter

NPDES-TB

Project:

QUALITY CONTROL DATA

Pace Project No.: 1292117 QC Batch: 120415 Analysis Method: USGS I-3765 QC Batch Method: USGS I-3765 Analysis Description: USGS I-3765 Total Suspended Solids Associated Lab Samples: 1292117001 METHOD BLANK: 477768 Matrix: Water Associated Lab Samples: 1292117001 Blank Reporting Limit MDL Parameter Units Result Analyzed Qualifiers Total Suspended Solids ND 1.0 1.0 07/24/17 15:41 mg/L LABORATORY CONTROL SAMPLE: Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 239 238 100 80-120

Dup

Result

Dup

Result

520

106

RPD

RPD

0

2

Max

RPD

Max

RPD

10

10

Qualifiers

Qualifiers

1292108001

Result

1292067002

Result

520

108

Units

mg/L

Units

mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NPDES-TB Pace Project No.: 1292117

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 07/28/2017 07:32 AM

PASI-DUL Pace Analytical Services - Duluth
PASI-V Pace Analytical Services - Virginia



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NPDES-TB Pace Project No.: 1292117

Date: 07/28/2017 07:32 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1292117001	SD 001 (Seep 020)	EPA 1664A TPH (1999)	120633	•	
1292117001	SD 001 (Seep 020)	USGS I-3765	120415		

Requested Due Date:

Fax:

Project Name:

NPDES-TB Wk3

Pace Project Manager: Pace Quote:

zika@pacelabs.com,

Purchase Order #:

Mt. Iron, MN 55768

Address: company:

P.O. Box 417 USS Corporation

Report To: Tom Moe

Required Project Information:

Сору То:

Required Client Information:

CHAIN-OF-CUSTODY / Analytical Reques

The Chain-of-Custody is a LEGAL DOCUMENT, All relevant field

Section C Invoice Information:

Company Name:

Attention: Address:

PM: MMW

Due Date: 08/02/17

DATE Signed: CLIENT: USS CORP 7-19-17 DATE 13:15 HIE TEMP in C Residual Chlorine (Y/N) Received on SAMPLE CONDITIONS (Y/N) Custody Sealed Cooler (Y/N) Samples Intact

10 3 12

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

EN/W/C DATE

13,15

ACCEPTED BY / AFFILIATION

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

Jason K Bonson

(Y/N)

9 œ 6 5 ω 2 _ ITEM #

One Character per box.
(A-Z, 0-9 /, -)
Sample Ids must be unique SAMPLE ID

MATRIX
Drinking Water
Water
Waste Water
Product
Soll/Solid
Oil
Wipe
Air
Other

TS AW OF SEL AWAL

MATRIX CODE (see valid codes to left)

START

END

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Unpreserved H2SO4 ниоз

HCI NaOH

Na2S2O3 Methanol

Analyses Test

Other

TSS

TRPH 1664

×

(G=GRAB C=COMP)

COLLECTED

Preservatives

Y/N

SAMPLE TYPE

SD 001 (Seep 020)

Š

7/14/17 11:00

7/19/17 11:00

TIME

DATE

Face Analytical"

Document Name: Sample Condition Upon Receipt Form

Document No.: F-VM-C-001-Rev.10 Document Revised: 15Mar2016 Page 1 of 1

Issuing Authority:

Pace Virginia, Minnesota Quality Office

Semming Condition Client Name:			Project #	WO#:1292117
Courier:	USPS Other:			PM: MMW Due Date: 08/02/17 CLIENT: USS CORP
Tracking Number:				
Custody Seal on Cooler/Box Present? Yes	No	Seals Ir	itact?	Yes No Optional: Proj. Due Date: Proj. Name:
-				Temp Blank? Yes No
Thermometer Used: 140792808				
Cooler Temp Read °C: 13 Cooler Temp Cooler	orrected °C or: <u></u> †0.)_/	Date and	Biological Tissue Frozen? Yes No No Indicates of Person Examining Contents: Comments:
Chain of Custody Present?	Yes	□No	□N/A	1.
Chain of Custody Filled Out?	Yes	□No	□N/A	2.
Chain of Custody Relinquished?	Yes	□No	□N/A	3.
Sampler Name and Signature on COC?	Yes	□No	□N/A	4.
Samples Arrived within Hold Time?	Yes	□No	□N/A	5. If Fecal:
Short Hold Time Analysis (<72 hr)?	Yes	No	□N/A	6.
Rush Turn Around Time Requested?	Yes	No	□N/A	7.
Sufficient Volume?	Yes	□No	□N/A	8.
Correct Containers Used?	Z/Yes	□No	□N/A	9.
-Pace Containers Used?	Yes	□No	□N/A	
Containers Intact?	Yes	□No	□N/A	10.
Filtered Volume Received for Dissolved Tests?	Yes	□No.	IN/A	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match COC?	Yes	No	□N/A	12
-Includes Date/Time/ID/Analysis Matrix:				16.
All containers needing acid/base preservation will be checked and documented in the pH logbook.	Yes	□No	□N/A	See pH log for results and additional preservation documentation
Headspace in Methyl Mercury Container	Yes	□No	ZN/A	13.
Headspace in VOA Vials (>6mm)?	Yes	□No	N/A	14.
Trip Blank Present?	Yes	No	ZN/A	15.
Trip Blank Custody Seals Present?	Yes	No	DN/A	
Pace Trip Blank Lot # (if purchased):				
CLIENT NOTIFICATION/RESOLUTION				Field Data Required? Yes No
Person Contacted:				Date/Time:
Comments/Resolution:				
FECAL WAIVER ON FILE Y N		TEM	PERATU	RE WAIVER ON FILE Y N

Project Manager Review:

| Date: 7/19/17
| Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)